

WHAT IS CLAIMED IS:

1. A touch panel for a display device having a driver IC,
comprising:

upper and lower substrates;

first and second transparent electrodes on opposing
surfaces of the upper and lower substrates;

a plurality of metal electrodes in a circumference of the
first and second transparent electrodes; and

a flexible printed cable having a plurality of signal
applying lines extended from the upper and lower substrates to a
rear side of the display device for applying signal voltages to
the metal electrodes, wherein the flexible printed cable is bent
at a corner of the upper and lower substrates from a top to a
bottom of the display device, and has a first part extended from
the corner of the display device and a second part extended from
the first part and the first and second parts being
perpendicular to each other.

2. The touch panel of claim 1, wherein the flexible printed cable has a plurality of through-holes before the flexible printed cable overlaps the driver IC.

3. The touch panel of claim 1, wherein the signal applying lines of the lower surface of the flexible printed cable are disposed on the upper surface of the flexible printed cable.

4. The touch panel of claim 1, wherein the flexible printed cable extends through the driver IC of the display device to be connected to a printed circuit board.

5. The touch panel of claim 3, wherein the signal applying lines for applying signals to the metal electrodes on the upper substrate are printed on the upper surface of the flexible printed cable, and the signal applying lines for applying signals to the metal electrodes on the lower substrate are printed on the lower surface of the flexible printed cable.

6. The touch panel of claim 1, wherein the metal electrodes include:

first and second metal electrodes being electrically connected to the first transparent electrode in the circumference of the first transparent electrode along the X-axis direction, and

third and fourth metal electrodes being electrically connected to the second transparent electrode in the circumference of the upper and lower sides on the second transparent electrode along the Y-axis direction.

7. The touch panel of claim 6, wherein the first, second, third, and fourth metal electrodes are connected to the first, second, third, and fourth signal applying lines.

8. The touch panel of claim 1, wherein the display device is a liquid crystal display device.

9. A method of fabricating a touch panel for a display device having a driver IC, comprising:

forming upper and lower substrates;

forming first and second transparent electrodes on opposing surfaces of the upper and lower substrates;

forming a plurality of metal electrodes in a circumference of the first and second transparent electrodes; and

forming a flexible printed cable having a plurality of signal applying lines extended from the upper and lower substrates to a rear side of the display device for applying signal voltages to the metal electrodes, wherein the flexible printed cable is bent at a corner of the upper and lower substrates from a top to a bottom of the display device, and has a first part extended from the corner of the display device and a second part extended from the first part and the first and second parts being perpendicular to each other.

10. The method of claim 9, wherein the flexible printed cable has a plurality of through-holes before the flexible printed cable overlaps the driver IC.

11. The touch panel of claim 9, wherein the signal applying lines of the lower surface of the flexible printed cable are disposed on the upper surface of the flexible printed cable.

12. The touch panel of claim 9, wherein the flexible printed cable extends through the driver IC of the display device to be connected to a printed circuit board.

13. The touch panel of claim 11, wherein the signal applying lines for applying signals to the metal electrodes on the upper substrate are printed on the upper surface of the flexible printed cable, and the signal applying lines for applying signals to the metal electrodes on the lower substrate are printed on the lower surface of the flexible printed cable.

14. The touch panel of claim 9, wherein the metal electrodes include:

first and second metal electrodes being electrically connected to the first transparent electrode in the

circumference of the first transparent electrode along the X-axis direction, and

third and fourth metal electrodes being electrically connected to the second transparent electrode in the circumference of the upper and lower sides on the second transparent electrode along the Y-axis direction.

15. The touch panel of claim 14, wherein the first, second, third, and fourth metal electrodes are connected to the first, second, third, and fourth signal applying lines.

16. The touch panel of claim 9, wherein the display device is a liquid crystal display device.